



Gokaraju Rangaraju Institute of Engineering and Technology

EVENT SUMMARY REPORT

Nature of the Event (Workshop / FDP / Seminar / Guest Lecture / Talk GD/ Training Program / Quiz / Presentation/ Industrial Visit)	Industrial Visit
Title / Theme of the Event	Industrial Visit , 220 kV GIS Sub Station, Erragadda
Details of the Coordinator	A Vinay Kumar
Date on which Event is held	14 th Aug 2018
Target Audience (Teaching Faculty / Non-Teaching Faculty / Students)	Students

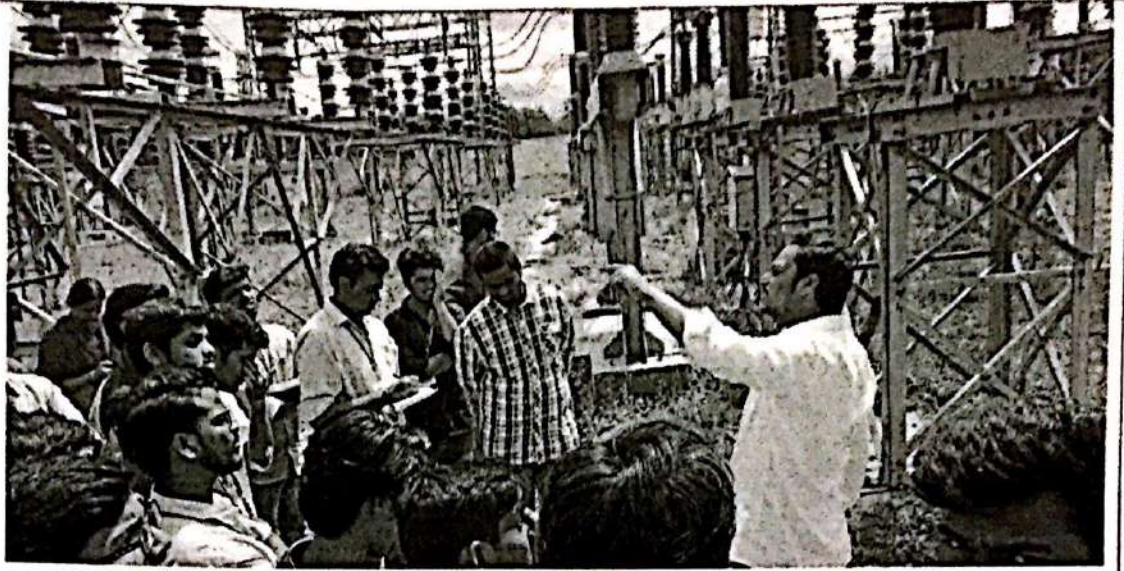


Summary of the Event

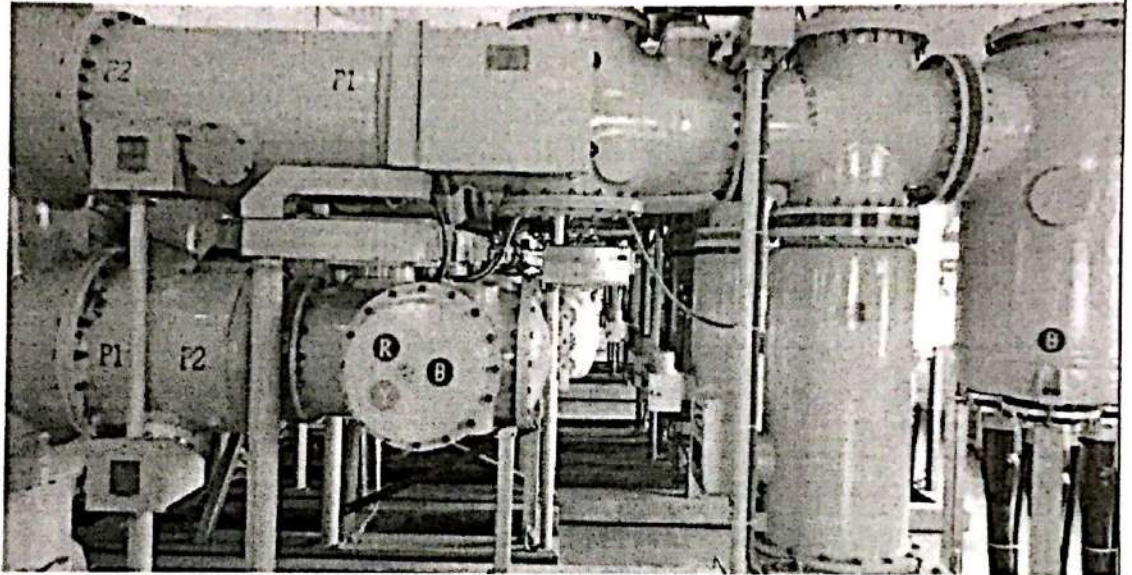
The 64 students of 5th semester of Department of Electrical and Electronics Engineering, GRIET, have gone to an industrial visit, to the 220/132 kV Sub-Station and GIS at Erragadda, Hyderabad. The industrial visit was mainly focused on the operation and maintenance of the sub-station, and its explanation to the students. The trip in the substation took 2 hours for the students, as it has 2 different substations.

- The Sub-Station has a rating of 220/132 kV, and has two types of sub-stations, and outdoor sub-station, and a Gas Insulated Substation.
- The substations have around 6 inputs from various line, 4 being overhead lines to the Outdoor station, and the remaining 2 being underground to the GIS.
- The substations give outputs to around 16 different areas in Hyderabad.
- The substations have three 80 MVA PTR's and two 40 MVA PTR's.
- The GIS has SF₆ as the gas in the containers.
- The conductors used are panther conductors and ug conductors.
- This visit is related to Power Systems and Switch Gear and Protection

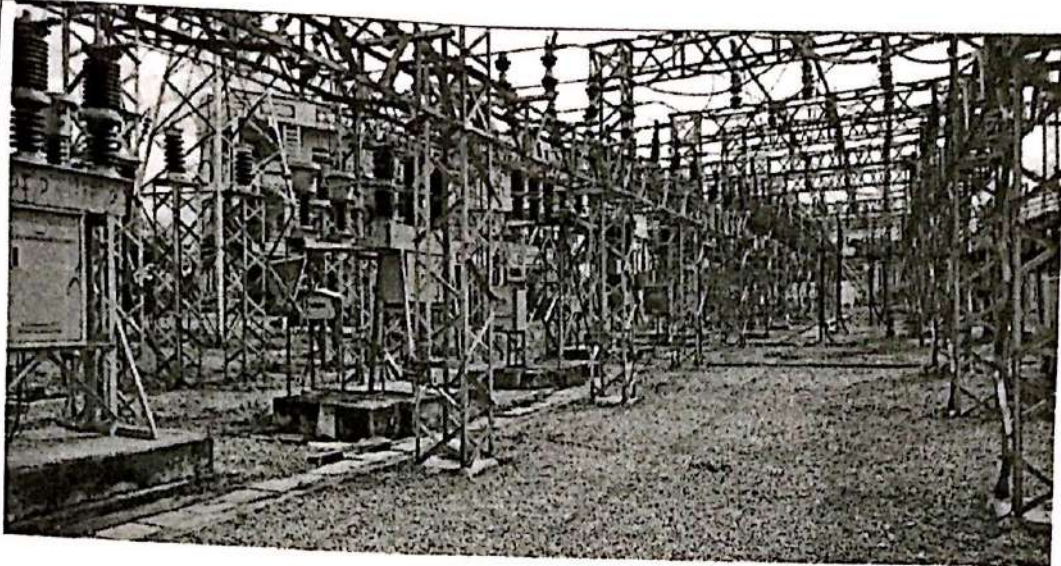
Starting at the control room of the outdoor substation, the students were explained about the different instruments used, and their protection instruments, the measuring instruments. The students were also explained about the functionality of the control room in the substations.



After that, the students were being shown the substation, explaining about the overhead transmission system, different parts in the substation (CB, Isolators, CT's, PT's, PTR's, busses and conductors used in them, the distribution system) along with their operation, the actual picture of the single line diagram of a transmission system and types of protection systems for the equipment present there.



Then, the students were taken to the Gas Insulated Substation (GIS). The students were explained about the underground transmission system, the structure of the substation, the gas used and its functionality and the operation of the substation. Then, they were shown the control room section of the GIS, its operation and connectivity to the substation parts.



**POs
attained
with this
Event**
(number and
description)

- PO1: Ability to apply knowledge of mathematics, science, and engineering.
- PO3: Ability to design a system, component, or process to meet desired needs within realistic constraints.
- PO4: Ability to function on multi-disciplinary teams.
- PO5: Ability to identify, formulate, and solve engineering problems.
- PO6: Understanding of professional and ethical responsibility.
- PO9: Recognition of the need for, and an ability to engage in life-long learning.
- PO10: Knowledge of contemporary issues.


Signature of Coordinator


Signature of HOD

List of students participated

S.No	Name	S.No	Name
1	Aishwarya N Popat	41	AMGOTH RISHITHA PAMAAR
2	AARE UPENDRA	42	ARVIND NAIDU
3	VIPPARTHI SOWMYA	43	MUKKAMULA RAMYA SREE
4	ALLA NAGA SAI KEERTHI	44	BOMRASPET PHANIDER
5	INCHURE MAHESH	45	N VAMSI KRISHNA
6	J MANIKANTH	46	NARSING SHRAVANI
27	CHALLAGUNDLA SOWMYA	67	P Aditya
7	APPANNA GUNDAPPA	47	P SHIVA SAI
8	Bathula Ravi Varma	48	Paidipally Sripreetham
9	BHUKYA KOUSHIK ARYAN	49	Pathipaka Pavan Kumar
10	BODDU SAI ROHITH	50	BANDI MANIDEEP
11	BADDAM ARUN	51	POTTA SURYATEJA
12	BANDHARI GALLA ROHIT RAO	52	RAMAVATH GANESH
26	KALYANAMPUDI VINOD KUMAR	66	S K Asif Ahmed
13	BANAM PRAMITH	53	S POOJITHA
14	D S PURNA SRI SAKETH	54	S RAVI
15	VELICHALA KALYANI	55	SAINI ALEKHYA
16	Dantika Venkatesh	56	SHIVEN GOYEL
17	G ADHARSH	57	SURAM SHIRISHA
18	G MANOJ	58	SAI HAVANIKA
19	G PREETHAM	59	Thirukkovella Manikanta
20	G RAHUL RAJU	60	TUMULA SRIVIDYA
21	G Rohan	61	UNDETY MOUNIKA
22	G MANGILAL	62	VANGA RITHVIKA
25	K VIKAS	65	VIDYA KANURI
23	MANDARI RUPESH	63	YELLOJU BHARATH RAJKUMAR
24	Paramesh S	64	Yerrola Srihari
28	GONE SOWMYA		
29	GOPIDI VENKAT REDDY		
30	KONDEPUDI LAKSHMI GANESH		
31	Konne Srikanth		
32	KOTTE MANOJ KUMAR		
33	LYADELLA SAINATH		
34	M VENU GOPAL		
35	M. VENUGOPAL		
36	M.NITIN KUMAR		
37	MAHANKALI AJAY		
38	Malavath Gayatri		
39	Maloth Rahul		
40	Mandapalli Pravallika		